

CRF Errors Corrected by the STIC Systems Branch

BATCH

Serial Number: 09/403075

CRF Processing Date: 9/12/2002

Edited by: [Signature]
Verified by: [Signature] (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Seqs 4, 6 - corrected amino acid nos.

***Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.**

BATCH

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/403,075

DATE: 09/12/2000
 TIME: 11:34:29

Input Set : A:\SEQUENCE LISTING.txt
 Output Set: N:\CRF3\09122000\I403075.raw

Does Not Comply
 Corrected Diskette Needed

2 <110> APPLICANT: Johnson, Gary L.
 4 <120> TITLE OF INVENTION: MEK1 PROTEINS AND FRAGMENTS THEREOF FOR USE IN REGULATING
 5 APOPTOSIS
 W--> 6 <130> FILE REFERENCE: CPI-042CPPC
 C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/403,075
 C--> 9 <141> CURRENT FILING DATE: 2000-05-10
 11 <160> NUMBER OF SEQ ID NOS: 21
 13 <170> SOFTWARE: PatentIn Ver. 2.0

ERRORED SEQUENCES

782 <210> SEQ ID NO: 4
 783 <211> LENGTH: 1493
 784 <212> TYPE: PRT
 785 <213> ORGANISM: Mus musculus
 787 <400> SEQUENCE: 4
 788 Met Ala Ala Ala Ala Gly Asp Arg Ala Ser Ser Ser Gly Phe Pro Gly
 789 1 5 10 15
 791 Ala Ala Ala Ala Ser Pro Glu Ala Gly Gly Gly Gly Gly Gly Gly
 792 20 25 30
 794 Ala Leu Gln Gly Ser Gly Ala Pro Ala Ala Gly Ala Ala Gly Leu Leu
 795 35 40 45
 797 Arg Glu Pro Gly Ser Ala Gly Arg Glu Arg Ala Asp Trp Arg Arg Arg
 798 50 55 60
 800 His Val Arg Lys Val Arg Ser Val Glu Leu Asp Gln Leu Pro Glu Gln
 801 65 70 75 80
 803 Pro Leu Phe Leu Ala Ala Ala Ser Pro Pro Cys Pro Ser Thr Ser Pro
 804 85 90 95
 806 Ser Pro Glu Pro Ala Asp Ala Ala Gly Ala Ser Arg Phe Gln Pro
 807 100 105 110
 809 Ala Ala Gly Pro Pro Pro Pro Gly Ala Ala Ser Arg Cys Gly Ser His
 810 115 120 125
 812 Ser Ala Glu Leu Ala Ala Ala Arg Asp Ser Gly Ala Arg Ser Pro Ala
 813 130 135 140
 815 Gly Ala Glu Pro Pro Ser Ala Ala Ala Pro Ser Gly Arg Glu Met Glu
 816 145 150 155 160
 818 Asn Lys Glu Thr Leu Lys Gly Leu His Lys Met Glu Asp Arg Pro Glu
 819 165 170 175
 821 Glu Arg Met Ile Arg Glu Lys Leu Lys Ala Thr Cys Met Pro Ala Trp
 822 180 185 190
 824 Lys His Glu Trp Leu Glu Arg Arg Asn Arg Arg Gly Pro Val Val Val
 825 195 200 205
 827 Lys Pro Ile Pro Ile Lys Gly Asp Gly Ser Glu Val Asn Asn Leu Ala
 828 210 215 220
 830 Ala Glu Pro Gln Gly Glu Gly Gln Ala Gly Ser Ala Ala Pro Ala Pro
 831 225 230 235 240

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833 Lys Gly Arg Arg Ser Pro Ser Pro Gly Ser Ser Pro Ser Gly Arg Ser
834                               245 250 255
836 Val Lys Pro Glu Ser Pro Gly Val Arg Arg Lys Arg Val Ser Pro Val
837                               260 265 270
839 Pro Phe Gln Ser Gly Arg Ile Thr Pro Pro Arg Arg Ala Pro Ser Pro
840                               275 280 285
842 Asp Gly Phe Ser Pro Tyr Ser Pro Glu Glu Thr Ser Arg Arg Val Asn
843                               290 295 300
845 Lys Val Met Arg Ala Arg Leu Tyr Leu Leu Gln Gln Ile Gly Pro Asn
846 305                               310 315 320
848 Ser Phe Leu Ile Gly Gly Asp Ser Pro Asp Asn Lys Tyr Arg Val Phe
849                               325 330 335
851 Ile Gly Pro Gln Asn Cys Ser Cys Gly Arg Gly Ala Phe Cys Ile His
852                               340 345 350
854 Leu Leu Phe Val Met Leu Arg Val Phe Gln Leu Glu Pro Ser Asp Pro
855                               355 360 365
857 Met Leu Trp Arg Lys Thr Leu Lys Asn Phe Glu Val Glu Ser Leu Phe
858 370                               375 380
860 Gln Lys Tyr His Ser Arg Arg Ser Ser Arg Ile Lys Ala Pro Ser Arg
861 385                               390 395 400
863 Asn Thr Ile Gln Lys Phe Val Ser Arg Met Ser Asn Ser His Thr Leu
864                               405 410 415
866 Ser Ser Ser Ser Thr Ser Thr Ser Ser Ser Glu Asn Ser Ile Lys Asp
867                               420 425 430
869 Glu Glu Glu Gln Met Cys Pro Ile Cys Leu Leu Gly Met Leu Asp Glu
870                               435 440 445
872 Glu Ser Leu Thr Val Cys Glu Asp Gly Cys Arg Asn Lys Leu His His
873 450                               455 460
875 His Cys Met Ser Ile Trp Ala Glu Glu Cys Arg Arg Asn Arg Glu Pro
876 465                               470 475 480
878 Leu Ile Cys Pro Leu Cys Arg Ser Lys Trp Arg Ser His Asp Phe Tyr
879                               485 490 495
881 Ser His Glu Leu Ser Ser Pro Val Glu Ser Pro Ala Ser Leu Arg Ala
882                               500 505 510
884 Val Gln Gln Pro Ser Ser Pro Gln Gln Pro Val Ala Gly Ser Gln Arg
885                               515 520 525
887 Arg Asn Gln Glu Ser Ser Phe Asn Leu Thr His Phe Gly Thr Gln Gln
888 530                               535 540
890 Ile Pro Ser Ala Tyr Lys Asp Leu Ala Glu Pro Trp Ile Gln Val Phe
891 545                               550 555 560
893 Gly Met Glu Leu Val Gly Cys Leu Phe Ser Arg Asn Trp Asn Val Arg
894                               565 570 575
896 Glu Met Ala Leu Arg Arg Leu Ser His Asp Val Ser Gly Ala Leu Leu
897                               580 585 590
899 Leu Ala Asn Gly Glu Ser Thr Gly Asn Ser Gly Gly Ser Gly Gly
900 595                               600 605
902 Ser Leu Ser Ala Gly Ala Ala Ser Gly Ser Ser Gln Pro Ser Ile Ser
903 610                               615 620
905 Gly Asp Val Val Glu Ala Cys Cys Ser Val Leu Ser Ile Val Cys Ala

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906 625          630          635          640
908 Asp Pro Val Tyr Lys Val Tyr Val Ala Ala Leu Lys Thr Leu Arg Ala
909          645          650          655
911 Met Leu Val Tyr Thr Pro Cys His Ser Leu Ala Glu Arg Ile Lys Leu
912          660          665          670
914 Gln Arg Leu Leu Arg Pro Val Val Asp Thr Ile Leu Val Lys Cys Ala
915          675          680          685
917 Asp Ala Asn Ser Arg Thr Ser Gln Leu Ser Ile Ser Thr Val Leu Glu
918          690          695          700
920 Leu Cys Lys Gly Gln Ala Gly Glu Leu Ala Val Gly Arg Glu Ile Leu
921 705          710          715          720
923 Lys Ala Gly Ser Ile Gly Val Gly Gly Val Asp Tyr Val Leu Ser Cys
924          725          730          735
926 Ile Leu Gly Asn Gln Ala Glu Ser Asn Asn Trp Gln Glu Leu Leu Gly
927          740          745          750
929 Arg Leu Cys Leu Ile Asp Arg Leu Leu Leu Glu Phe Pro Ala Glu Phe
930          755          760          765
932 Tyr Pro His Ile Val Ser Thr Asp Val Ser Gln Ala Glu Pro Val Glu
933          770          775          780
935 Ile Arg Tyr Lys Lys Leu Ser Leu Leu Thr Phe Ala Leu Gln Ser
936 785          790          795          800
938 Ile Asp Asn Ser His Ser Met Val Gly Lys Leu Ser Arg Arg Ile Tyr
939          805          810          815
941 Leu Ser Ser Ala Arg Met Val Thr Ala Val Pro Ala Val Phe Ser Lys
942          820          825          830
944 Leu Val Thr Met Leu Asn Ala Ser Gly Ser Thr His Phe Thr Arg Met
945          835          840          845
947 Arg Arg Arg Leu Met Ala Ile Ala Asp Glu Val Glu Ile Ala Glu Val
948          850          855          860
950 Ile Gln Leu Gly Val Glu Asp Thr Val Asp Gly His Gln Asp Ser Leu
951 865          870          875          880
953 Gln Ala Val Ala Pro Thr Ser Cys Leu Glu Asn Ser Ser Leu Glu His
954          885          890          895
956 Thr Val His Arg Glu Lys Thr Gly Lys Gly Leu Ser Ala Thr Arg Leu
957          900          905          910
959 Ser Ala Ser Ser Glu Asp Ile Ser Asp Arg Leu Ala Gly Val Ser Val
960          915          920          925
962 Gly Leu Pro Ser Ser Thr Thr Thr Glu Gln Pro Lys Pro Ala Val Gln
963          930          935          940
965 Thr Lys Gly Arg Pro His Ser Gln Cys Leu Asn Ser Ser Pro Leu Ser
966 945          950          955          960
968 His Ala Gln Leu Met Phe Pro Ala Pro Ser Ala Pro Cys Ser Ser Ala
969          965          970          975
971 Pro Ser Val Pro Asp Ile Ser Lys His Arg Pro Gln Ala Phe Val Pro
972          980          985          990
974 Cys Lys Ile Pro Ser Ala Ser Pro Gln Thr Gln Arg Lys Phe Ser Leu
975          995          1000          1005
977 Gln Phe Gln Arg Asn Cys Ser Glu His Arg Asp Ser Asp Gln Leu Ser
978          1010          1015          1020

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980 Pro Val Phe Thr Gln Ser Arg Pro Pro Pro Ser Ser Asn Ile His Arg
E--> 981 025 1030 1035 1040
983 Pro Lys Pro Ser Arg Pro Val Pro Gly Ser Thr Ser Lys Leu Gly Asp
984 1045 1050 1055
986 Ala Thr Lys Ser Ser Met Thr Leu Asp Leu Gly Ser Ala Ser Arg Cys
987 1060 1065 1070
989 Asp Asp Ser Phe Gly Gly Gly Gly Asn Ser Gly Asn Ala Val Ile Pro
990 1075 1080 1085
992 Ser Asp Glu Thr Val Phe Thr Pro Val Glu Asp Lys Cys Arg Leu Asp
993 1090 1095 1100
995 Val Asn Thr Glu Leu Asn Ser Ser Ile Glu Asp Leu Leu Glu Ala Ser
E--> 996 105 110 1115 1120
998 Met Pro Ser Ser Asp Thr Thr Val Thr Phe Lys Ser Glu Val Ala Val
999 1125 1130 1135
1001 Leu Ser Pro Glu Lys Ala Glu Asn Asp Asp Thr Tyr Lys Asp Asp Val
1002 1140 1145 1150
1004 Asn His Asn Gln Lys Cys Lys Glu Lys Met Glu Ala Glu Glu Glu
1005 1155 1160 1165
1007 Ala Leu Ala Ile Ala Met Ala Met Ser Ala Ser Gln Asp Ala Leu Pro
1008 1170 1175 1180
1010 Ile Val Pro Gln Leu Gln Val Glu Asn Gly Glu Asp Ile Ile Ile Ile
E--> 1011 185 1190 1195 1200
1013 Gln Gln Asp Thr Pro Glu Thr Leu Pro Gly His Thr Lys Ala Lys Gln
1014 1205 1210 1215
1016 Pro Tyr Arg Glu Asp Ala Glu Trp Leu Lys Gly Gln Gln Ile Gly Leu
1017 1220 1225 1230
1019 Gly Ala Phe Ser Ser Cys Tyr Gln Ala Gln Asp Val Gly Thr Gly Thr
1020 1235 1240 1245
1022 Leu Met Ala Val Lys Gln Val Thr Tyr Val Arg Asn Thr Ser Ser Glu
1023 1250 1255 1260
1025 Gln Glu Glu Val Val Glu Ala Leu Arg Glu Glu Ile Arg Met Met Gly
E--> 1026 265 1270 1275 1280
1028 His Leu Asn His Pro Asn Ile Ile Arg Met Leu Gly Ala Thr Cys Glu
1029 1285 1290 1295
1031 Lys Ser Asn Tyr Asn Leu Phe Ile Glu Trp Met Ala Gly Gly Ser Val
1032 1300 1305 1310
1034 Ala His Leu Leu Ser Lys Tyr Gly Ala Phe Lys Glu Ser Val Val Ile
1035 1315 1320 1325
1037 Asn Tyr Thr Glu Gln Leu Leu Arg Gly Leu Ser Tyr Leu His Glu Asn
1038 1330 1335 1340
1040 Gln Ile Ile His Arg Asp Val Lys Gly Ala Asn Leu Leu Ile Asp Ser
E--> 1041 345 1350 1355 1360
1043 Thr Gly Gln Arg Leu Arg Ile Ala Asp Phe Gly Ala Ala Ala Arg Leu
1044 1365 1370 1375
1046 Ala Ser Lys Gly Thr Gly Ala Gly Glu Phe Gln Gly Gln Leu Gly
1047 1380 1385 1390
1049 Thr Ile Ala Phe Met Ala Pro Glu Val Leu Arg Gly Gln Gln Tyr Gly
1050 1395 1400 1405
1052 Arg Ser Cys Asp Val Trp Ser Val Gly Cys Ala Ile Ile Glu Met Ala

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```

1053      1410      1415      1420
1055 Cys Ala Lys Pro Pro Trp Asn Ala Glu Lys His Ser Asn His Leu Ala
E--> 1056 425      1430      1435      1440
1058 Leu Ile Phe Lys Ile Ala Ser Ala Thr Thr Ala Pro Ser Ile Pro Ser
1059      1445      1450      1455
1061 His Leu Ser Pro Gly Leu Arg Asp Val Ala Val Arg Cys Leu Glu Leu
1062      1460      1465      1470
1064 Gln Pro Gln Asp Arg Pro Pro Ser Arg Glu Leu Leu Lys His Pro Val
1065      1475      1480      1485
1067 Phe Arg Thr Thr Trp
1068      1490
1410 <210> SEQ ID NO: 6
1411 <211> LENGTH: 1302
1412 <212> TYPE: PRT
1413 <213> ORGANISM: Homo sapiens
1415 <400> SEQUENCE: 6
1416 Ala Trp Lys His Glu Trp Leu Glu Arg Arg Asn Arg Arg Gly Pro Val
1417 1      5      10      15
1419 Val Val Lys Pro Ile Pro Val Lys Gly Asp Gly Ser Glu Met Asn His
1420      20      25      30
1422 Leu Ala Ala Glu Ser Pro Gly Glu Val Gln Ala Ser Ala Ala Ser Pro
1423      35      40      45
1425 Ala Ser Lys Gly Arg Arg Ser Pro Ser Pro Gly Asn Ser Pro Ser Gly
1426      50      55      60
1428 Arg Thr Val Lys Ser Glu Ser Pro Gly Val Arg Arg Lys Arg Val Ser
1429      65      70      75      80
1431 Pro Val Pro Phe Gln Ser Gly Arg Ile Thr Pro Pro Arg Arg Ala Pro
1432      85      90      95
1434 Ser Pro Asp Gly Phe Ser Pro Tyr Ser Pro Glu Glu Thr Asn Arg Arg
1435      100      105      110
1437 Val Asn Lys Val Met Arg Ala Arg Leu Tyr Leu Leu Gln Gln Ile Gly
1438      115      120      125
1440 Pro Asn Ser Phe Leu Ile Gly Gly Asp Ser Pro Asp Asn Lys Tyr Arg
1441      130      135      140
1443 Val Phe Ile Gly Pro Gln Asn Cys Ser Cys Ala Arg Gly Thr Phe Cys
1444      145      150      155      160
1446 Ile His Leu Leu Phe Val Met Leu Arg Val Phe Gln Leu Glu Pro Ser
1447      165      170      175
1449 Asp Pro Met Leu Trp Arg Lys Thr Leu Lys Asn Phe Glu Val Glu Ser
1450      180      185      190
1452 Leu Phe Gln Lys Tyr His Ser Arg Arg Ser Ser Arg Ile Lys Ala Pro
1453      195      200      205
1455 Ser Arg Asn Thr Ile Gln Lys Phe Val Ser Arg Met Ser Asn Ser His
1456      210      215      220
1458 Thr Leu Ser Ser Ser Ser Thr Ser Thr Ser Ser Val Asn Ser Ile
1459      225      230      235      240
1461 Lys Asp Glu Glu Glu Gln Met Cys Pro Ile Cys Leu Leu Gly Met Leu
1462      245      250      255
1464 Asp Glu Glu Ser Leu Thr Val Cys Glu Asp Gly Cys Arg Asn Lys Leu

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```

1465          260          265          270
1467 His His His Cys Met Ser Ile Trp Ala Glu Glu Cys Arg Arg Asn Arg
1468          275          280          285
1470 Glu Pro Leu Ile Cys Pro Leu Cys Arg Ser Lys Trp Arg Ser His Asp
1471          290          295          300
1473 Phe Tyr Ser His Glu Leu Ser Ser Pro Val Asp Ser Pro Ser Ser Leu
1474 305          310          315          320
1476 Arg Ala Ala Gln Gln Gln Thr Val Gln Gln Gln Pro Leu Ala Gly Ser
1477          325          330          335
1479 Arg Arg Asn Gln Glu Ser Asn Phe Asn Leu Thr His Tyr Gly Thr Gln
1480          340          345          350
1482 Gln Ile Pro Pro Ala Tyr Lys Asp Leu Ala Glu Pro Trp Ile Gln Val
1483          355          360          365
1485 Phe Gly Met Glu Leu Val Gly Cys Leu Phe Ser Arg Asn Trp Asn Val
1486          370          375          380
1488 Arg Glu Met Ala Leu Arg Arg Leu Ser His Asp Val Ser Gly Ala Leu
1489 385          390          395          400
1491 Leu Leu Ala Asn Gly Glu Ser Thr Gly Asn Ser Gly Gly Gly Ser Gly
1492          405          410          415
1494 Gly Ser Leu Ser Ala Gly Ala Ala Ser Gly Ser Ser Gln Pro Ser Ile
1495          420          425          430
1497 Ser Gly Asp Val Val Glu Ala Cys Cys Ser Val Leu Ser Ile Val Cys
1498          435          440          445
1500 Ala Asp Pro Val Tyr Lys Val Tyr Val Ala Ala Leu Lys Thr Leu Arg
1501          450          455          460
1503 Ala Met Leu Val Tyr Thr Pro Cys His Ser Leu Ala Glu Arg Ile Lys
1504 465          470          475          480
1506 Leu Gln Arg Leu Leu Arg Pro Val Val Asp Thr Ile Leu Val Lys Cys
1507          485          490          495
1509 Ala Asp Ala Asn Ser Arg Thr Ser Gln Leu Ser Ile Ser Thr Val Leu
1510          500          505          510
1512 Glu Leu Cys Asn Gly Gln Ala Gly Lys Leu Ala Val Gly Arg Glu Ile
1513          515          520          525
1515 Leu Lys Ala Gly Ser Ile Gly Val Gly Gly Val Asp Tyr Val Leu Ser
1516          530          535          540
1518 Cys Ile Leu Gly Asn Gln Ala Glu Ser Asn Asn Trp Gln Glu Leu Leu
1519 545          550          555          560
1521 Gly Arg Leu Cys Leu Ile Asp Arg Leu Leu Leu Glu Phe Pro Ala Glu
1522          565          570          575
1524 Phe Tyr Pro His Ile Val Ser Thr Asp Val Ser Gln Ala Glu Pro Val
1525          580          585          590
1527 Glu Ile Arg Tyr Lys Lys Leu Leu Ser Leu Leu Thr Phe Ala Leu Gln
1528          595          600          605
1530 Ser Ile Asp Asn Ser His Ser Met Val Gly Lys Leu Ser Arg Arg Ile
1531          610          615          620
1533 Tyr Leu Ser Ser Ala Arg Met Val Thr Ala Val Pro Ala Val Phe Ser
1534 625          630          635          640
1536 Lys Leu Val Thr Met Leu Asn Ala Ser Gly Ser Thr His Phe Thr Arg
1537          645          650          655

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```

1539 Met Arg Arg Arg Leu Met Ala Ile Ala Asp Glu Val Glu Ile Ala Glu
1540                               660                               665
1542 Val Ile Gln Leu Gly Val Glu Asp Thr Val Asp Gly His Gln Asp Ser
1543                               675                               680
1545 Leu Gln Ala Leu Ala Pro Ala Ser Cys Leu Glu Asn Ser Ser Leu Glu
1546                               690                               695
1548 His Thr Val His Arg Glu Lys Thr Gly Lys Gly Leu Ser Ala Thr Arg
1549 705                               710                               715
1551 Leu Ser Ala Ser Ser Glu Asp Ile Ser Asp Arg Leu Ala Gly Val Ser
1552                               725                               730
1554 Val Gly Leu Pro Ser Ser Thr Thr Thr Glu Gln Pro Lys Pro Ala Val
1555                               740                               745
1557 Gln Thr Lys Gly Arg Pro His Ser Gln Cys Leu Asn Ser Ser Pro Leu
1558                               755                               760
1560 Ser His Ala Gln Leu Met Phe Pro Ala Pro Ser Ala Pro Cys Ser Ser
1561                               770                               775
1563 Ala Pro Ser Val Pro Asp Ile Ser Lys His Arg Pro Gln Ala Phe Val
1564 785                               790                               795
1566 Pro Cys Lys Ile Pro Ser Ala Ser Pro Gln Thr Gln Arg Lys Phe Ser
1567                               805                               810
1569 Leu Gln Phe Gln Arg Asn Cys Ser Glu His Arg Asp Ser Asp Gln Leu
1570                               820                               825
1572 Ser Pro Val Phe Thr Gln Ser Arg Pro Pro Pro Ser Ser Asn Ile His
1573                               835                               840
1575 Arg Pro Lys Pro Ser Arg Pro Val Pro Gly Ser Thr Ser Lys Leu Gly
1576                               850                               855
1578 Asp Ala Thr Lys Ser Ser Met Thr Leu Asp Leu Gly Ser Ala Ser Arg
1579 865                               870                               875
1581 Cys Asp Asp Ser Phe Gly Gly Gly Gly Asn Ser Gly Asn Ala Val Ile
1582                               885                               890
1584 Pro Ser Asp Glu Thr Val Phe Thr Pro Val Glu Asp Lys Cys Arg Leu
1585                               900                               905
1587 Asp Val Asn Thr Glu Leu Asn Ser Ser Ile Glu Asp Leu Leu Glu Ala
1588                               915                               920
1590 Ser Met Pro Ser Ser Asp Thr Thr Val Thr Phe Lys Ser Glu Val Ala
1591                               930                               935
1593 Val Leu Ser Pro Glu Lys Ala Glu Asn Asp Asp Thr Tyr Lys Asp Asp
1594 945                               950                               955
1596 Val Asn His Asn Gln Lys Cys Lys Glu Lys Met Glu Ala Glu Glu Glu
1597                               965                               970
1599 Glu Ala Leu Ala Ile Ala Met Ala Met Ser Ala Ser Gln Asp Ala Leu
1600                               980                               985
1602 Pro Ile Val Pro Gln Leu Gln Val Glu Asn Gly Glu Asp Ile Ile Ile
1603                               995                               1000
1605 Ile Gln Gln Asp Thr Pro Glu Thr Leu Pro Gly His Thr Lys Ala Lys
1606                               1010                               1015
1608 Gln Pro Tyr Arg Glu Asp Ala Glu Trp Leu Lys Gly Gln Gln Ile Gly
1609 025                               1030                               1035
1611 Leu Gly Ala Phe Ser Ser Cys Tyr Gln Ala Gln Asp Val Gly Thr Gly

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1612          1045          1050          1055
1614 Thr Leu Met Ala Val Lys Gln Val Thr Tyr Val Arg Asn Thr Ser Ser
1615          1060          1065          1070
1617 Glu Gln Glu Glu Val Val Glu Ala Leu Arg Glu Glu Ile Arg Met Met
1618          1075          1080          1085
1620 Ser His Leu Asn His Pro Asn Ile Ile Arg Met Leu Gly Ala Thr Cys
1621          1090          1095          1100
1623 Glu Lys Ser Asn Tyr Asn Leu Phe Ile Glu Trp Met Ala Gly Gly Ser
E--> 1624 105          1110          1115          1120
1626 Val Ala His Leu Leu Ser Lys Tyr Gly Ala Phe Lys Glu Ser Val Val
1627          1125          1130          1135
1629 Ile Asn Tyr Thr Glu Gln Leu Leu Arg Gly Leu Ser Tyr Leu His Glu
1630          1140          1145          1150
1632 Asn Gln Ile Ile His Arg Asp Val Lys Gly Ala Asn Leu Leu Ile Asp
1633          1155          1160          1165
1635 Ser Thr Gly Gln Arg Leu Arg Ile Ala Asp Phe Gly Ala Ala Ala Arg
1636          1170          1175          1180
1638 Leu Ala Ser Lys Gly Thr Gly Ala Gly Glu Phe Gln Gly Gln Leu Leu
E--> 1639 185          1190          1195          1200
1641 Gly Thr Ile Ala Phe Met Ala Pro Glu Val Leu Arg Gly Gln Gln Tyr
1642          1205          1210          1215
1644 Gly Arg Ser Cys Asp Val Trp Ser Val Gly Cys Ala Ile Ile Glu Met
1645          1220          1225          1230
1647 Ala Cys Ala Lys Pro Pro Trp Asn Ala Glu Lys His Ser Asn His Leu
1648          1235          1240          1245
1650 Ala Leu Ile Phe Lys Ile Ala Ser Ala Thr Thr Ala Pro Ser Ile Pro
1651          1250          1255          1260
1653 Ser His Leu Ser Pro Gly Leu Arg Asp Val Ala Leu Arg Cys Leu Glu
E--> 1654 265          1270          1275          1280
1656 Leu Gln Pro Gln Asp Arg Pro Pro Ser Arg Glu Leu Leu Lys His Pro
1657          1285          1290          1295
1659 Val Phe Arg Thr Thr Trp
1660          1300

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VERIFICATION SUMMARY
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Input Set : A:\SEQUENCE LISTING.txt
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L:6 M:283 W: Missing Blank Line separator, <130> field identifier
L:8 M:270 C: Current Application Number differs, Replaced Current Application Number
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:981 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:4
M:332 Repeated in SeqNo=4
L:1609 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
M:332 Repeated in SeqNo=6